

IN THE CLAIMS

Please amend the claims as follows.

For the Examiner's convenience, a list of all claims is included below.

1. (Currently amended) A method of producing a representation of a streaming media data at a caching proxy server, said method comprising:

transmitting a request for streaming media data to be delivered to said caching proxy server;

transmitting a request for data associated with said streaming media data, said request including an identifier which ~~represents one of several possible types of data~~ is associated with said streaming media data, and is at least one of a transmit time data and a packet frame type data;

receiving said streaming media data and storing said streaming media data on a storage device which is capable of being controlled by said caching proxy server; and

receiving said data associated with said streaming media data.

2. (Original) A method as in claim 1 further comprising:

storing said data associated with said streaming media data in said storage device.

3. (Currently amended) A method for data transmission from a server data processing system, said method comprising:

receiving a request for streaming media data, said request including a request for data associated with said streaming media data, said request including an identifier which ~~represents~~

~~one of several possible types of data~~ is associated with said streaming media data, and is at least one of a transmit time data and a packet frame type data;

responding to the request with a response indicating a capability of the server to support the request; and

sending the requested data associated with said streaming media data.

4. (Original) A method of claim 3, wherein said sending uses a real-time transport protocol (RTP).

5. (Original) A method of claim 3, wherein said request may be made by a caching proxy server or a client.

6. (Original) A method of claim 3, wherein the server responding with an echo only if it supports the request.

7. (Original) A method of claim 3, further comprising sending the requested data associated with the transmission protocol in an extensible extended header format.

8. (Original) A method of claim 7, wherein the extensible extended header comprises an extension name and an extension identification (ID) associated with each separate RTP extension.

9. (Original) A method of claim 3, wherein request may be for one or more type of transmission protocol data at a time.

10. (Original) A method of claim 3, wherein the response by the server comprising response for each supported transmission protocol data and no response for any unsupported transmission protocol data.

11. (Original) A method of claim 3, further comprising receiving a request to send the transmission protocol data after sending a response for supported data, and sending only the requested and supported transmission protocol data.

A 12. (Currently amended) A method for operating a caching proxy server comprising:
sending a request for streaming media data to a server, said request including a request for data associated with said streaming media data, said request including an identifier which ~~represents one of several possible types of data~~ is associated with said streaming media data, and
is at least one of a transmit time data and a packet frame type data;

receiving a response from the server indicating support for the requested streaming media data;

informing the server to send the supported data associated with said streaming media data;

receiving the streaming media data from the server;

receiving a request from the client to send streaming media data; and

sending the requested streaming media data to the client.

13. (Original) A method of claim 12, wherein said receiving and sending uses a real-time transport protocol (RTP).

14. (Original) A method of claim 12, wherein said receiving streaming media data from the server is in an extensible extended header format.

15. (Original) A method of claim 12, wherein said sending a request may be for one or more various and unrelated types of streaming media data to be sent at a time.

16. (Original) A method of claim 12, wherein said response from the server comprising response for each supported type of streaming media and no response for any unsupported types of streaming media data.

17. (Original) A method of claim 14, wherein said extensible extended header format is appended before sending to client.

18. (Original) A method of claim 17, wherein, appending comprising stripping of name and ID part of the extensible extended header.

19. (Original) A method of claim 12, further comprising determining if a requested type of streaming media data, that which is required by a caching proxy server to be able to perform its processes, is missing in the response by the server.

20. (Original) A method of claim 19 further comprising terminating the data transmission process if the requested type of streaming media data is missing in server's response and is critical to the data transmission process.

21-68 (Canceled)

69. (Currently amended) A machine-readable medium that provides executable instructions, which when executed by a set of processors, cause said set of processors to perform operations for producing a streaming media data at a caching proxy server comprising:

transmitting a request ~~from~~ for streaming media data to be delivered to said caching proxy server;

transmitting a request for data associated with said streaming media data, said request including an identifier which ~~represents one of several possible types of data~~ is associated with said streaming media data, and is at least one of a transmit time data and a packet frame type data;

receiving said streaming media data and storing said streaming media data on a storage device which is capable of being controlled by said caching proxy server; and receiving said data associated with said streaming media data.

70. (Original) A machine-readable medium as in claim 69 further comprising: storing said data associated with said streaming media data in said storage device.

71. (Currently amended) A machine-readable medium that provides executable instructions, which when executed by a set of processors, cause said set of processors to perform data transmission operations from a server data processing system comprising:


receiving a request for streaming media data, said request including a request for data associated with said streaming media data, said request including an identifier which ~~represents~~

~~one of several possible types of data~~ is associated with said streaming media data, and is at least one of a transmit time data and a packet frame type data;

responding to the request with a response indicating a capability of said server to support the request; and

sending the requested data associated with said streaming media data.

72. (Original) A machine-readable medium as in claim 71, wherein said sending uses a real-time transport protocol (RTP).

 73. (Original) A machine-readable medium as in claim 71, wherein said request may be made by a caching proxy server or a client.

74. (Original) A machine-readable medium as in claim 71, wherein said responding with a response occurring only if said server supports the request.

75. (Original) A machine-readable medium as in claim 71, further comprising sending the requested data associated with the transmission protocol in an extensible extended header format.

76. (Original) A machine-readable medium as in claim 75, wherein said extensible extended header comprises an extension name and an extension identification (ID) associated with each separate RTP extension.

77. (Original) A machine-readable medium as in claim 71, wherein said request may be for one or more type of transmission protocol data at a time.

78. (Original) A machine-readable medium as in claim 71, wherein said response by the server comprising response for each supported transmission protocol data and no response for any unsupported transmission protocol data.

79. (Original) A machine-readable medium as in claim 71, further comprising receiving a request to send the transmission protocol data after sending a response for supported data, and sending only the requested and supported transmission protocol data.

A 80. (Currently amended) A machine-readable medium that provides executable instructions, which when executed by a set of processors, cause said set of processors to perform data transmission receiving operations from a sever comprising:

sending a request for streaming media data to said server, said request including a request for data associated with said streaming media data, said request including an identifier which ~~represents one of several possible types of data~~ is associated with said streaming media data, and is at least one of a transmit time data and a packet frame type data;

receiving a response from said server indicating support for the requested streaming media data;

informing said server to send the supported data associated with said streaming media data;

receiving the supported streaming media data from said server;


receiving a request from a client to send streaming media data; and

sending the requested streaming media data to said client.

81. (Original) A machine-readable medium as in claim 80, wherein said receiving and sending uses a real-time transport protocol (RTP).

82. (Original) A machine-readable medium as in claim 80, wherein said receiving streaming media data from the server is in an extensible extended header format.

83. (Original) A machine-readable medium as in claim 80, wherein said sending a request may be for one or more various and unrelated types of streaming media data to be sent at a time.

 84. (Original) A machine-readable medium as in claim 80, wherein said response from the server comprising response for each supported type of streaming media and no response for any unsupported types of streaming media data.

85. (Original) A machine-readable medium as in claim 82, wherein said extensible extended header format is appended before sending to client.

86. (Original) A machine-readable medium as in claim 85, wherein, appending comprising stripping of name and ID part of the extensible extended header.

87. (Original) A machine-readable medium as in claim 80, further comprising determining if a requested type of streaming media data, that which is required by a caching proxy server to be able to perform its processes, is missing in the response by the server.

88. (Original) A machine-readable medium as in claim 87, further comprising terminating the data transmission process if the requested type of streaming media data is missing in server's response and is critical to the data transmission process.

89-136 (Canceled)

137. (Currently amended) A caching proxy server comprising:

means for transmitting a request for streaming media data to be delivered to said caching proxy server;

means for transmitting a request for data associated with said streaming media data, said request including an identifier which ~~represents one of several possible types of data~~ is associated with said streaming media data, and is at least one of a transmit time data and a packet frame type data;

means for receiving said streaming media data and storing said streaming media data on a storage device which is capable of being controlled by said caching proxy server; and

means for receiving said data associated with said streaming media data.

138. (Currently amended) A server data processing system comprising:

means for receiving a request for streaming media data, said request including a request for data associated with said streaming media data, said request including an identifier which ~~represents one of several possible types of data~~ is associated with said streaming media data, and is at least one of a transmit time data and a packet frame type data;

means for responding to the request with a response indicating a capability of the server to support the request; and

means for sending the requested data associated with said streaming media data.

139. (Currently amended) A caching proxy server comprising:

means for sending a message for streaming media data to a server, said request including a request for data associated with said streaming media data, said request including an identifier which ~~represents one of several possible types of data~~ is associated with said streaming media data, and is at least one of a transmit time data and a packet frame type data;

means for receiving a response from the server indicating support for the requested streaming media data;

means for informing the server to send the supported data associated with said streaming media data;

means for receiving the streaming media data from the server;

means for receiving a request from the client to send streaming media data; and

means for sending the requested streaming media data to the client.

140. (Canceled)

141. (Currently amended) A server comprising:

means for receiving a request for one or more types of streaming media data from a caching proxy server or a client, said request including a request for data associated with said streaming media data, said request including an identifier which ~~represents one of several possible types of data~~ is associated with said streaming media data, and is at least one of a transmit time data and a packet frame type data;

means for determining if requested types of streaming media data are supported by the server; and

means for responding to the request with a response indicating the capability of the server to support the request.

142. (Currently amended) A caching proxy server comprising:

means for sending a request for one or more types of related or unrelated streaming media data to a server, said request including a request for data associated with said streaming media data, said request including an identifier which ~~represents one of several possible types of data~~ is associated with said streaming media data, and is at least one of a transmit time data and a packet frame type data;

means for receiving a response to each requested type of streaming media data; and

means for deciding whether to proceed or terminate negotiation process associated with streaming media data.

143-144(Canceled)

145. (Original) A caching proxy server comprising:

means for requesting data corresponding to transmit time for streaming media data from a server;

means for receiving said streaming media data and corresponding transmit time information from the server;

means for storing the received information; and

A means for transmitting from said caching proxy server to a client said streaming media data at times specified by said transmit time.
